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CLAIMS:

What is claimed is:

- 1 1. A method, in a server, comprising:
  - 2 receiving data from a server application;
  - 3 determining whether the data is serializable; and
  - 4 storing the data in a data structure and forwarding,
  - 5 to a client, a reference to the data structure if the
  - 6 data is not serializable.
- 1 2. The method of claim 1, wherein the data structure
  - 2 comprises a hash table.
- 1 3. The method of claim 2, wherein the reference to the
  - 2 data structure comprises a hash key.
- 1 4. The method of claim 1, further comprising:
  - 2 receiving argument data from a client;
  - 3 determining whether the argument data is a reference
  - 4 to a complex object; and
  - 5 retrieving the complex object from the data
  - 6 structure if the argument data is a reference to a
  - 7 complex object.
- 1 5. The method of claim 4, wherein the argument data
  - 2 comprises an argument in a server application call.
- 1 6. The method of claim 5, further comprising:

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1        passing the complex object as the argument in the  
2 server application call.

1    7.    A method, in a server, comprising:  
2        receiving argument data from a client;  
3        determining whether the argument data is a reference  
4 to a complex object; and  
5        retrieving the complex object from a data structure  
6 if the argument data is a reference to a complex object.

1    8.    The method of claim 7, wherein the data structure  
2 comprises a hash table.

1    9.    The method of claim 7, wherein the reference to the  
2 complex object comprises a hash key.

1    10.   The method of claim 7, wherein the argument data  
2 comprises an argument in a server application call.

1    11.   The method of claim 10, further comprising:  
2        passing the complex object as the argument in the  
3 server application call.

1    12.   An apparatus, in a server, comprising:  
2        receipt means for receiving data from a server  
3 application;  
4        determination means for determining whether the data  
5 is serializable; and

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1 storage means for storing the data in a data  
2 structure and forwarding, to a client, a reference to the  
3 data structure if the data is not serializable.

1 13. The apparatus of claim 12, wherein the data  
2 structure comprises a hash table.

1 14. The apparatus of claim 13, wherein the reference to  
2 the data structure comprises a hash key.

1 15. The apparatus of claim 12, further comprising:  
2 means for receiving argument data from a client;  
3 means for determining whether the argument data is a  
4 reference to a complex object; and  
5 means for retrieving the complex object from the  
6 data structure if the argument data is a reference to a  
7 complex object.

1 16. The apparatus of claim 15, wherein the argument data  
2 comprises an argument in a server application call.

1 17. The apparatus of claim 16, further comprising:  
2 means for passing the complex object as the argument  
3 in the server application call.

1 18. An apparatus, in a server, comprising:  
2 receipt means for receiving argument data from a  
3 client;

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1       determination means for determining whether the  
2   argument data is a reference to a complex object; and  
3       retrieval means for retrieving the complex object  
4   from a data structure if the argument data is a reference  
5   to a complex object.

1   19.   The apparatus of claim 18, wherein the data  
2   structure comprises a hash table.

1   20.   The apparatus of claim 18, wherein the reference to  
2   the complex object comprises a hash key.

1   21.   The apparatus of claim 18, wherein the argument data  
2   comprises an argument in a server application call.

1   22.   The apparatus of claim 21, further comprising:  
2       means for passing the complex object as the argument  
3   in the server application call.

1   23.   A computer program product, in a computer readable  
2   medium, comprising:  
3       instructions for receiving data from a server  
4   application;  
5       instructions for determining whether the data is  
6   serializable; and  
7       instructions for storing the data in a data  
8   structure and forwarding, to a client, a reference to the  
9   data structure if the data is not serializable.

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- 1 24. A computer program product, in a computer readable
- 2 medium, comprising:
- 3       instructions for receiving argument data from a
- 4 client;
- 5       instructions for determining whether the argument
- 6 data is a reference to a complex object; and
- 7       instructions for retrieving the complex object from
- 8 a data structure if the argument data is a reference to a
- 9 complex object.

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